# **Actions needed by States**

### **HIGHWAY**

### **Improve Child Occupant Protection**

Enact State laws requiring booster seats for young children.

### **Enact Primary Seat Belt Enforcement Laws**

• Increase the number of people who wear seat belts through stronger enforcement laws.

### **Promote Youth Highway Safety**

- Enact graduated driver licensing legislation.
- Restrict the number of teen passengers traveling with young novice drivers.
- Prohibit use of wireless communications devices by young novice drivers.

### **Eliminate Hard Core Drinking Driving**

- Enact State legislation and take other actions that are proven to reduce crashes involving those who repeatedly drink large amounts of alcohol and drive including:
  - Frequent, statewide sobriety checkpoints.
  - Legislation to create stricter sanctions for those arrested the first time with a high blood alcohol concentration of 0.15 or higher.
  - Zero blood alcohol requirement for convicted DWI offenders when they get their license back.
  - Administrative rather than court-based license revocation for refusing to take or failing the sobriety test.
  - Vehicle sanctions for DWI offenders.
  - Eliminate plea-bargaining DWI offenses and programs that divert offenders and purge the offense record.
  - Retain DWI records for at least 10 years to identify and prosecute repeat offenders.
  - Develop and operate special sanction court-based programs for hard core DWI offenders.

# Improve School Bus/Grade Crossing Safety

- Install stop signs at passive crossings.
- Upgrade school bus railroad crossings that only have warning signs to crossings with lights and gates.
- Install switches on new buses that allow drivers to turn off radios and other devices that mask the sound of train warning horns.
- · Enhance bus driver training and evaluation.
- Include grade crossing questions on commercial driver's license exams.

#### MARINE

# **Enhance Recreational Boating Safety**

- Require mandatory education of boat operators.
- Require use of life jackets by children.
- Require safety instruction prior to personal watercraft rental.



2007

Critical changes needed to reduce transportation accidents and save lives.

# NTSB MOSTWANTED

### **AVIATION:** The Federal Aviation Administration should act to:

### Reduce Dangers to Aircraft Flying in Icing Conditions

- Use current research on freezing rain and large water droplets to revise the way aircraft are designed and approved for flight in icing conditions.
- Conduct additional research with NASA to identify realistic ice accumulation and incorporate new information into aircraft certification and pilot training requirements.

### Eliminate Flammable Fuel/Air Vapors in Fuel Tanks on Transport Category Aircraft

• Implement design changes to eliminate the vulnerabilities of flammable fuel/air vapors in all transport category aircraft.

### Stop Runway Incursions/Ground Collisions of Aircraft

• Give immediate warnings of probable collisions/incursions directly to flight crews in the cockpit.

### Improve Audio and Data Recorders/Require Video Recorders

- Require cockpit voice recorders to retain at least 2 hours of audio.
- Require back-up power sources so cockpit voice recorders collect an extra 10 minutes of data when an aircraft's main power fails.
- Install video recorders in cockpits to give investigators more information to solve complex accidents.
- · Install dual combination recorders.
- Expand parameters recorded on Boeing 737 airplanes.

# Reduce Accidents and Incidents Caused by Human Fatigue

 Set working hour limits for flight crews and aviation mechanics based on fatigue research, circadian rhythms, and sleep and rest requirements.

# Improve Crew Resource Management

 Require commuter and on-demand air taxi flight crews to receive crew resource management training.

# **RAILROAD:** The Federal Railroad Administration should act to:

### **Implement Positive Train Control Systems**

• Prevent train collisions and overspeed accidents by requiring automatic control systems to override mistakes by human operators.

# **PIPELINE:** The Pipeline and Hazardous Materials Safety Administration should act to:

# Reduce Accidents and Incidents Caused by Human Fatigue

• Set working hour limits for pipeline controllers based on fatigue research, circadian rhythms, and sleep and rest requirements.

# **NTSB CLASSIFICATION**



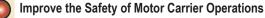
Acceptable response, progressing slowly

Acceptable response, progressing in a timely manner

# **Actions needed by Federal Agencies**

### **HIGHWAY:**

### The Federal Motor Carrier Safety Administration should act to:



• Prevent motor carriers from operating if they put vehicles with mechanical problems on the road or unqualified drivers behind the wheel.

# Prevent Medically Unqualified Drivers from Operating Commercial Vehicles

- Establish a comprehensive medical oversight program for interstate commercial drivers.
- Ensure that examiners are qualified and know what to look for.
- · Track all medical certificate applications.
- Enhance oversight and enforcement of invalid certificates.
- Provide mechanisms for reporting medical conditions.

### The National Highway Traffic Safety Administration should act to:

### Enhance Protection for Motorcoach Passengers

- Redesign motorcoach window emergency exits so passengers can easily open them.
- Issue standards for stronger bus roofs and require them in new motorcoaches.
- Devise new standards to protect motorcoach passengers from being thrown out of their seats or ejected when a bus sustains a front, side, or rear impact or rolls over.

### Enhance Protection for School Bus Passengers

 Devise new standards to protect school bus passengers from being thrown out of their seats or ejected when a school bus sustains a front, side, or rear impact or rolls over.

#### **MARINE:**

### The U.S. Coast Guard should act to:

# Reduce Accidents and Incidents Caused by Human Fatigue

• Set working hour limits for mariners based on fatigue research, circadian rhythms, and sleep and rest requirements.

### **INTERMODAL:**

# The U.S. Department of Transportation should act to:

# Reduce Accidents and Incidents Caused by Human Fatigue

• Set working hour limits for transportation operators based on fatigue research, circadian rhythms, and sleep and rest requirements.



### **National Transportation Safety Board**

490 L' Enfant Plaza, SW • Washington, DC 20594 (202) 314.6000 • http://www.ntsb.gov